

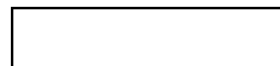
**NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER**

**PHOTO  
INTERPRETATION  
NOTE**

**PARABOLIC ANTENNA AT KHARKOV  
PROBABLE RADIO ASTRONOMY FACILITY**



**TOP SECRET**



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# PARABOLIC ANTENNA AT KHARKOV PROBABLE RADIO ASTRONOMY FACILITY

1. The largest known parabolic antenna in the Soviet Union was recently identified at the Kharkov Probable Radio Astronomy Facility (49-41-22N 036-16-56E), 18 nautical miles south of Kharkov. This antenna [REDACTED] is unique in its octagonal shape. It was identified on photography [REDACTED] as was the Kharkov Probable Radio Astronomy Facility.

2. The antenna is mounted in a horizontal position and has a near-vertical orientation. Each side of the octagonal reflector is [REDACTED] long. The mesh surface of the reflector is slightly concave. A feed projects from the center of the reflector, and a possible subreflector appears mounted above the feed. The possible subreflector is supported by an arm connected at two points to the reflector surface. The construction of the subreflector assembly may enable the subreflector to move in two directions above the dish.

3. Two rectangular operational buildings are associated with the antenna. One is adjacent to the antenna and is cable connected to its base. This building [REDACTED] [REDACTED] The second operational building, which is connected by conduit to the first, [REDACTED]

4. The secured facility contains five additional buildings and one possible pedestal. The facility was first seen under construction on photography [REDACTED] NPIC/ [REDACTED]

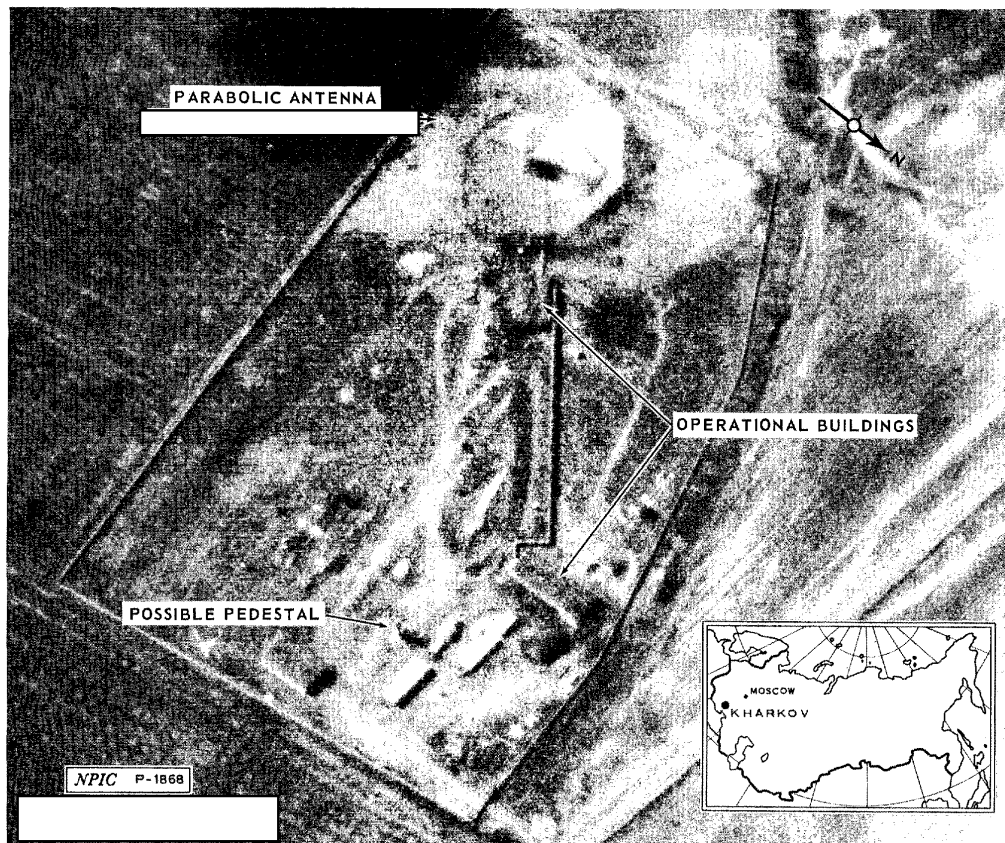


FIGURE 1. PARABOLIC ANTENNA AT KHARKOV PROBABLE RADIO ASTRONOMY FACILITY

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